# Test Report
## Fineness test

| | |
|---|---|
| **Project Name** | 1. Improvement of drain at thirumenahalli village main road in ward no 05 byatarayanapura sub division.2) Improvement of road and drain at thirumenahalli junction to agrahara layout govt hospital in ward no05 byatarayanapura sub division 3)Improvement of roads and drain at chokkanahalli village main road cross road in ward no 05 byatarayanapura sub division 4) Improvement of roads and drain at markendeyanagara main road and cross roads in ward no 05 byatarayanapura sub division 5) Improvement of roads and drain at sriraj layout main road and cross road in ward no 05 byatarayanapura sub division 6) Improvement of roads and drain at kogilu surrounding in ward no 05 byatarayanapura sub division 7)Improvement of roads and drain at agrahara village cross roads in ward no 05 byatarayanapura sub division 8) Improvement of roads and drain at agrahara layout kallappa reddy main road in ward no 05 byatarayanapura sub division |
| **Client** | Executive Engineer Project Division Yelahanka Zone |
| **Job No** | MCTPL/BBMP/Project Division Yelahanka Zone /PMC/2017-2018/QR/P-9/1 |
| **Mix Type** | Plain cement concrete |
| **Contractor** | Sri S K Chandra |
| **Test Method** | IS : 4031 (Part 5) -1988 & Specification for Road & Bridge Works, MORT&H, Rev-V. |
| **Location** | At site |
| **Material** | Cement |
| **Sample No** | 1 |
| **Date** | 23-Mar-2018 |

| Sl. No. | Determination | Trial 1 | Trial 2 |
|---|---|---|---|
| 1 | Weight of Cement before sieve (gm) | 100 | 100 |
| 2 | Weight of residue retained on 90um sieve (gm) | 5 | 3.7 |
| 3 | Percentage retained (%) | 5 | 3.7 |
| 4 | Average Percentage retained (%) | 4.35 | |

**Results:** Residue of cement is: 4.35%

**Comments:** Maximum allowable residue by mass for ordinary portlad cement is 10%

**Note:**

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**Mecadez Core Technologies Pvt Ltd**

**Authorised Signature**

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

# Test Report
## Soundness test

| | |
|---|---|
| **Project Name** | 1. Improvement of drain at thirumenahalli village main road in ward no 05 byatarayanapura sub division.2) Improvement of road and drain at thirumenahalli junction to agrahara layout govt hospital in ward no05 byatarayanapura sub division 3)Improvement of roads and drain at chokkanahalli village main road cross road in ward no 05 byatarayanapura sub division 4) Improvement of roads and drain at markendeyanagara main road and cross roads in ward no 05 byatarayanapura sub division 5) Improvement of roads and drain at sriraj layout main road and cross road in ward no 05 byatarayanapura sub division 6) Improvement of roads and drain at kogilu surrounding in ward no 05 byatarayanapura sub division 7)Improvement of roads and drain at agrahara village cross roads in ward no 05 byatarayanapura sub division 8) Improvement of roads and drain at agrahara layout kallappa reddy main road in ward no 05 byatarayanapura sub division |
| **Client** | Executive Engineer Project Division Yelahanka Zone |
| **Job No** | MCTPL/BBMP/Project Division Yelahanka Zone /PMC/2017-2018/QR/P-9/1 |
| **Mix Type** | Plain cement concrete |
| **Contractor** | Sri S K Chandra |
| **Test Method** | IS : 4031 (Part 3) -1988 & Specification for Road & Bridge Works, MORT&H, Rev-V. |
| **Location** | At Site |
| **Material** | Cement |
| **Sample No** | 1 |
| **Date** | 23-Mar-2018 |

| Sl. No. | Description | Trial 1 | Trial 2 | Trial 3 |
|---|---|---|---|---|
| 1 | Initial Distance between the indicator points of Lechatelier mould | 11 | 10 | 11 |
| 2 | Final Distance between the indicator points of Lechatelier mould | 17 | 17 | 15 |
| 3 | Difference or expansion | 6 | 7 | 4 |
| 4 | Average Differences or Expansion in mm | 5.67 | | |

**Results:** Difference in Expansion of Cement: 5.67mm

**Comments:** Maximum allowable Expansion of cement is 10mm.

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Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

# Test Report
## Compressive strength test

| | |
|---|---|
| **Project Name** | 1. Improvement of drain at thirumenahalli village main road in ward no 05 byatarayanapura sub division.2) Improvement of road and drain at thirumenahalli junction to agrahara layout govt hospital in ward no05 byatarayanapura sub division 3)Improvement of roads and drain at chokkanahalli village main road cross road in ward no 05 byatarayanapura sub division 4) Improvement of roads and drain at markendeyanagara main road and cross roads in ward no 05 byatarayanapura sub division 5) Improvement of roads and drain at sriraj layout main road and cross road in ward no 05 byatarayanapura sub division 6) Improvement of roads and drain at kogilu surrounding in ward no 05 byatarayanapura sub division 7)Improvement of roads and drain at agrahara village cross roads in ward no 05 byatarayanapura sub division 8) Improvement of roads and drain at agrahara layout kallappa reddy main road in ward no 05 byatarayanapura sub division |
| **Client** | Executive Engineer Project Division Yelahanka Zone |
| **Job No** | MCTPL/BBMP/Project Division Yelahanka Zone /PMC/2017-2018/QR/P-9/1 |
| **Mix Type** | Plain cement concrete |
| **Contractor** | Sri S K Chandra |
| **Test Method** | IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V. |
| **Location** | At Site |
| **Material** | Cement |
| **Sample No** | 1 |
| **Date** | 2-Apr-2018 |

| Cube | Cement Grade | Age at Test (Days) | Slump (mm) | Weight (kg) | Dimension (LxWxH) | Density (kg/m3) | Max. Load (KN) | Area (mm2) | Compressive Strength (N/mm2) | Average Sample (n/mm2) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 43 | 7 | - | 0.81 | 70.6x70.6 x70.6 | 2301.8 | 182 | 4984.36 | 36.51 | 36.61 |
| 2 | 43 | 7 | - | 0.84 | 70.6x70.6 x70.6 | 2387.1 | 183 | 4984.36 | 36.71 | |

**Results**: 7-days Compressive strength of cement is 36.61N/mm$^2$

**Comments**: 7-days Compressive strength of cement should not be less than 33 N/mm$^2$

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Yelahanka Zone
Bangalore

# Test Report
## Gradation test

| | |
|---|---|
| **Project Name** | 1. Improvement of drain at thirumenahalli village main road in ward no 05 byatarayanapura sub division.2) Improvement of road and drain at thirumenahalli junction to agrahara layout govt hospital in ward no05 byatarayanapura sub division 3)Improvement of roads and drain at chokkanahalli village main road cross road in ward no 05 byatarayanapura sub division 4) Improvement of roads and drain at markendeyanagara main road and cross roads in ward no 05 byatarayanapura sub division 5) Improvement of roads and drain at sriraj layout main road and cross road in ward no 05 byatarayanapura sub division 6) Improvement of roads and drain at kogilu surrounding in ward no 05 byatarayanapura sub division 7)Improvement of roads and drain at agrahara village cross roads in ward no 05 byatarayanapura sub division 8) Improvement of roads and drain at agrahara layout kallappa reddy main road in ward no 05 byatarayanapura sub division |
| **Client** | Executive Engineer Project Division Yelahanka Zone |
| **Job No** | MCTPL/BBMP/Project Division Yelahanka Zone /PMC/2017-2018/QR/P-9/1 |
| **Mix Type** | Plain cement concrete |
| **Contractor** | Sri S K Chandra |
| **Test Method** | IS : 2386 (Part - 1) 1963 & Specification for Road & Bridge Works, MORT&H, Rev. V. |
| **Location** | At site |
| **Material** | Fine Aggregates |
| **Sample No** | 1 |
| **Date** | 23-Mar-2018 |

**Weight of Sample(gram):** 200

| Sl No. | IS Sieve Size | Weight retained | % retained | % Cumulative | Cumulative % of Passing | | Remarks |
|---|---|---|---|---|---|---|---|
| | | | | | % Passing | Gradation limits | |
| 1 | 10 mm | 0 | 0.00 | 0.00 | 100.00 | 100 | Gradation satisfies the MORT&H Zone ll Specification for PQC |
| 2 | 4.75 mm | 13 | 6.50 | 6.50 | 93.50 | 90-100 | |
| 3 | 2.36 mm | 18 | 9.00 | 15.50 | 84.50 | 75-100 | |
| 4 | 1.18 mm | 13 | 6.50 | 22.00 | 78.00 | 55-90 | |
| 5 | 600 µ | 45 | 22.50 | 44.50 | 55.50 | 35-59 | |
| 6 | 300 µ | 57 | 28.50 | 73.00 | 27.00 | 8-30 | |
| 7 | 150 µ | 42 | 21.00 | 94.00 | 6.00 | 0-10 | |

**Note:**

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Yelahanka Zone
Bangalore

# Test Report
## Gradation test

| | |
|---|---|
| **Project Name** | 1. Improvement of drain at thirumenahalli village main road in ward no 05 byatarayanapura sub division.2) Improvement of road and drain at thirumenahalli junction to agrahara layout govt hospital in ward no05 byatarayanapura sub division 3)Improvement of roads and drain at chokkanahalli village main road cross road in ward no 05 byatarayanapura sub division 4) Improvement of roads and drain at markendeyanagara main road and cross roads in ward no 05 byatarayanapura sub division 5) Improvement of roads and drain at sriraj layout main road and cross road in ward no 05 byatarayanapura sub division 6) Improvement of roads and drain at kogilu surrounding in ward no 05 byatarayanapura sub division 7)Improvement of roads and drain at agrahara village cross roads in ward no 05 byatarayanapura sub division 8) Improvement of roads and drain at agrahara layout kallappa reddy main road in ward no 05 byatarayanapura sub division |
| **Client** | Executive Engineer Project Division Yelahanka Zone |
| **Job No** | MCTPL/BBMP/Project Division Yelahanka Zone /PMC/2017-2018/QR/P- |
| **Mix Type** | Plain cement concrete |
| **Contractor** | Sri S K Chandra |
| **Test Method** | IS : 2386 (Part - 1) 1963 & Specification for Road & Bridge Works, MORT&H, Rev. V. |
| **Location** | At site |
| **Material** | Fine Aggregates |
| **Sample No** | 2 |
| **Date** | 28-Mar-2018 |

**Weight of Sample(gram):** 200

| Sl No. | IS Sieve Size | Weight retained | % retained | % Cumulative | Cumulative % of Passing | | Remarks |
|---|---|---|---|---|---|---|---|
| | | | | | % Passing | Gradation limits | |
| 1 | 10 mm | 0 | 0.00 | 0.00 | 100.00 | 100 | Gradation satisfies the MORT&H Zone ll Specification for PQC |
| 2 | 4.75 mm | 13 | 6.50 | 6.50 | 93.50 | 90-100 | |
| 3 | 2.36 mm | 20 | 10.00 | 16.50 | 83.50 | 75-100 | |
| 4 | 1.18 mm | 15 | 7.50 | 24.00 | 76.00 | 55-90 | |
| 5 | 600 µ | 46 | 23.00 | 47.00 | 53.00 | 35-59 | |
| 6 | 300 µ | 58 | 29.00 | 76.00 | 24.00 | 8-30 | |
| 7 | 150 µ | 35 | 17.50 | 93.50 | 6.50 | 0-10 | |

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MECADEZ Insight Makes It Happen

MECADEZ CORE TECHNOLOGIES PRIVATE LIMITED

PROJECT MANAGEMENT & CONSULTANCY SERVICES

# Test Report
## Gradation test

| | |
|---|---|
| **Project Name** | 1. Improvement of drain at thirumenahalli village main road in ward no 05 byatarayanapura sub division.2) Improvement of road and drain at thirumenahalli junction to agrahara layout govt hospital in ward no05 byatarayanapura sub division 3)Improvement of roads and drain at chokkanahalli village main road cross road in ward no 05 byatarayanapura sub division 4) Improvement of roads and drain at markendeyanagara main road and cross roads in ward no 05 byatarayanapura sub division 5) Improvement of roads and drain at sriraj layout main road and cross road in ward no 05 byatarayanapura sub division 6) Improvement of roads and drain at kogilu surrounding in ward no 05 byatarayanapura sub division 7)Improvement of roads and drain at agrahara village cross roads in ward no 05 byatarayanapura sub division 8) Improvement of roads and drain at agrahara layout kallappa reddy main road in ward no 05 byatarayanapura sub division |
| **Client** | Executive Engineer Project Division Yelahanka Zone |
| **Job No** | MCTPL/BBMP/Project Division Yelahanka Zone /PMC/2017-2018/QR/P-9/1 |
| **Mix Type** | Plain cement concrete |
| **Contractor** | Sri S K Chandra |
| **Test Method** | IS : 2386 (Part - 1) 1963 & Specification for Road & Bridge Works, MORT&H, Rev. V. |
| **Location** | At site |
| **Material** | Coarse aggregates |
| **Sample No** | 1 |
| **Date** | 23-Mar-2018 |

**Weight of Sample: 4000 gms**

| Sl. No | I.S. Sieve size | Weight Retained (gm) | Percentage of weight Retained (%) | Percentage of weight retained (%) | Passing | | Remarks |
|---|---|---|---|---|---|---|---|
| | | | | | Test Resul | Gradation Limits as per | |
| 1 | 31.50 | 0 | 0.00 | 0.00 | 100.00 | 100 | |
| 2 | 26.50 | 492 | 12.30 | 12.30 | 87.70 | 85-95 | |
| 3 | 19.00 | 320 | 8.00 | 20.30 | 79.70 | 68-88 | |
| 4 | 9.50 | 635 | 15.88 | 36.18 | 63.83 | 45-65 | |
| 5 | 4.75 | 420 | 10.50 | 46.68 | 53.33 | 30-55 | |
| 6 | 0.60 | 950 | 23.75 | 70.43 | 29.58 | 8-30 | |
| 7 | 0.15 | 850 | 21.25 | 91.68 | 8.33 | 5-15 | |
| 8 | 0.08 | 250 | 6.25 | 97.93 | 2.08 | 0-5 | |

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Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

# Test Report
## Gradation test

| | |
|---|---|
| **Project Name** | 1. Improvement of drain at thirumenahalli village main road in ward no 05 byatarayanapura sub division.2) Improvement of road and drain at thirumenahalli junction to agrahara layout govt hospital in ward no05 byatarayanapura sub division 3)Improvement of roads and drain at chokkanahalli village main road cross road in ward no 05 byatarayanapura sub division 4) Improvement of roads and drain at markendeyanagara main road and cross roads in ward no 05 byatarayanapura sub division 5) Improvement of roads and drain at sriraj layout main road and cross road in ward no 05 byatarayanapura sub division 6) Improvement of roads and drain at kogilu surrounding in ward no 05 byatarayanapura sub division 7)Improvement of roads and drain at agrahara village cross roads in ward no 05 byatarayanapura sub division 8) Improvement of roads and drain at agrahara layout kallappa reddy main road in ward no 05 byatarayanapura sub division |
| **Client** | Executive Engineer Project Division Yelahanka Zone |
| **Job No** | MCTPL/BBMP/Project Division Yelahanka Zone /PMC/2017-2018/QR/P-9/1 |
| **Mix Type** | Plain cement concrete |
| **Contractor** | Sri S K Chandra |
| **Test Method** | IS : 2386 (Part - 1) 1963 & Specification for Road & Bridge Works, MORT&H, Rev. V. |
| **Location** | At site |
| **Material** | Coarse aggregates |
| **Sample No** | 2 |
| **Date** | 26-Mar-2018 |

**Weight of Sample: 4000 gms**

| Sl. No | I.S. Sieve size | Weight Retained (gm) | Percentage of weight Retained (%) | Percentage of weight retained (%) | Passing | | Remarks |
|---|---|---|---|---|---|---|---|
| | | | | | Test Result | Gradation Limits as per | |
| 1 | 31.50 | 0 | 0.00 | 0.00 | 100.00 | 100 | |
| 2 | 26.50 | 493 | 12.33 | 12.33 | 87.68 | 85-95 | |
| 3 | 19.00 | 325 | 8.13 | 20.45 | 79.55 | 68-88 | |
| 4 | 9.50 | 631 | 15.78 | 36.23 | 63.78 | 45-65 | |
| 5 | 4.75 | 415 | 10.38 | 46.60 | 53.40 | 30-55 | |
| 6 | 0.60 | 948 | 23.70 | 70.30 | 29.70 | 8-30 | |
| 7 | 0.15 | 839 | 20.98 | 91.28 | 8.73 | 5-15 | |
| 8 | 0.08 | 258 | 6.45 | 97.73 | 2.28 | 0-5 | |

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Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

# Test Report
## Water absorption test

| | |
|---|---|
| **Project Name** | 1. Improvement of drain at thirumenahalli village main road in ward no 05 byatarayanapura sub division.2) Improvement of road and drain at thirumenahalli junction to agrahara layout govt hospital in ward no05 byatarayanapura sub division 3)Improvement of roads and drain at chokkanahalli village main road cross road in ward no 05 byatarayanapura sub division 4) Improvement of roads and drain at markendeyanagara main road and cross roads in ward no 05 byatarayanapura sub division 5) Improvement of roads and drain at sriraj layout main road and cross road in ward no 05 byatarayanapura sub division 6) Improvement of roads and drain at kogilu surrounding in ward no 05 byatarayanapura sub division 7)Improvement of roads and drain at agrahara village cross roads in ward no 05 byatarayanapura sub division 8) Improvement of roads and drain at agrahara layout kallappa reddy main road in ward no 05 byatarayanapura sub division |
| **Client** | Executive Engineer Project Division Yelahanka Zone |
| **Job No** | MCTPL/BBMP/Project Division Yelahanka Zone /PMC/2017-2018/QR/P-9/1 |
| **Mix Type** | Plain cement concrete |
| **Contractor** | Sri S K Chandra |
| **Test Method** | IS : 2386 (Part - 3) 1963 & Specification for Road & Bridge Works, MORT&H, Rev. V. |
| **Location** | At site |
| **Material** | Coarse aggregates |
| **Sample No** | 1 |
| **Date** | 21-Mar-2018 |

| Sl. No. | Particulars | Computations | Test Numbers | | Mean |
|---|---|---|---|---|---|
| | | | Test 1 | Test 2 | |
| 1 | Weight of SSD sample | $W_1$ g | 761 | 763 | |
| 2 | Aggregates Immersed in | $W_2$g | 2024 | 2022 | |
| 3 | Weight of Saturated Aggregate in water | $W_s$g = $W_2$- $W_1$ | 1263 | 1259 | |
| 4 | dry aggregate in Air | $W_3$ g | 2059 | 2047 | |
| 5 | Volume of the Aggregate | $W_3$- $W_s$ | 796 | 788 | |
| 6 | Aggregate | $W_4$g | 2020 | 2018 | |
| 7 | Specific Gravity | $W_4$/( $W_3$- $W_s$) | 2.54 | 2.56 | 2.55 |
| 8 | Apparent Specific Gravity | $W_4$/( $W_4$- $W_s$) | 2.67 | 2.66 | 2.66 |
| 9 | Water Absorption | ($W_4$- $W_3$)*100/ $W_4$ | 1.93 | 1.44 | 1.69 |

**Comments:** Maximum allowable Aggregate Water Absorption value is 2.0%.

**Note:**

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**Mecadez Core Technologies Pvt Ltd**

**Authorised Signature** Shosha

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Bangalore

# Test Report
## Impact test

| | |
|---|---|
| **Project Name** | 1. Improvement of drain at thirumenahalli village main road in ward no 05 byatarayanapura sub division.2) Improvement of road and drain at thirumenahalli junction to agrahara layout govt hospital in ward no05 byatarayanapura sub division 3)Improvement of roads and drain at chokkanahalli village main road cross road in ward no 05 byatarayanapura sub division 4) Improvement of roads and drain at markendeyanagara main road and cross roads in ward no 05 byatarayanapura sub division 5) Improvement of roads and drain at sriraj layout main road and cross road in ward no 05 byatarayanapura sub division 6) Improvement of roads and drain at kogilu surrounding in ward no 05 byatarayanapura sub division 7)Improvement of roads and drain at agrahara village cross roads in ward no 05 byatarayanapura sub division 8) Improvement of roads and drain at agrahara layout kallappa reddy main road in ward no 05 byatarayanapura sub division |
| **Client** | Executive Engineer Project Division Yelahanka Zone |
| **Job No** | MCTPL/BBMP/Project Division Yelahanka Zone /PMC/2017- |
| **Mix Type** | Plain cement concrete |
| **Contractor** | Sri S K Chandra |
| **Test Method** | IS : 2386 (Part - 4) 1963 & Specification for Road & Bridge Works, MORT&H, Rev. V. |
| **Location** | At Site |
| **Material** | Coarse aggregates |
| **Sample No** | 1 |
| **Date** | 21-Mar-2018 |

| Sl. No. | Determination | Unit | Trails | |
|---|---|---|---|---|
| 1 | Weight of empty cylinder, w1 | gm | 960 | 960 |
| 2 | Weight of container filled with Aggregate, w2 | gm | 1304 | 1306 |
| 3 | Weight of the Aggregate before compaction, (w2 - w1) = w3 | gm | 344 | 346 |
| 4 | Weight of the sample passing through 2.36 mm IS sieves after Impact, w4 | gm | 80 | 81 |
| 5 | Weight of the sample retained on 2.36 mm IS sieve after Impact, w5 | gm | 264 | 265 |
| 6 | Aggregate Impact Value (w4 / w3 )x100 | % | 23.26 | 23.41 |
| 7 | Specified Limit | % | 45.00 | |

**Results:** Average Aggregate Impact Value: **23.33** %

Note:

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Bangalore

# Test Report
## Concrete Compresive strength

| | |
|---|---|
| **Project Name** | 1. Improvement of drain at thirumenahalli village main road in ward no 05 byatarayanapura sub division.2) Improvement of road and drain at thirumenahalli junction to agrahara layout govt hospital in ward no05 byatarayanapura sub division 3)Improvement of roads and drain at chokkanahalli village main road cross road in ward no 05 byatarayanapura sub division 4) Improvement of roads and drain at markendeyanagara main road and cross roads in ward no 05 byatarayanapura sub division 5) Improvement of roads and drain at sriraj layout main road and cross road in ward no 05 byatarayanapura sub division 6) Improvement of roads and drain at kogilu surrounding in ward no 05 byatarayanapura sub division 7)Improvement of roads and drain at agrahara village cross roads in ward no 05 byatarayanapura sub division 8) Improvement of roads and drain at agrahara layout kallappa reddy main road in ward no 05 byatarayanapura sub division |
| **Client** | Executive Engineer Project Division Yelahanka Zone |
| **Job No** | MCTPL/BBMP/Project Division Yelahanka Zone /PMC/2017-2018/QR/P-9/1 |
| **Mix Type** | M20 Concrete for Raft |
| **Contractor** | Sri S K Chandra |
| **Test Method** | IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V. |
| **Location** | Bay |
| **Material** | Concrete |
| **Sample No** | 1 |
| **Date** | 25-Mar-2018 |

| Cube | Concrete Grade | Age at Test (Days) | Weight (kg) | Dimension (LxWxH) | Density ($kg/m^3$) | Max. Load (KN) | Area ($m^2$) | Compressive Strength ($N/mm^2$) | Avg. Sample Strength | Avg. Strength |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 20 | 7 | 6.79 | 150*150*150 | 2011.85 | 320 | 0.0225 | 14.22 | 14.00 | 14.13 |
| 2 | 20 | 7 | 6.83 | 150*150*150 | 2023.70 | 310 | 0.0225 | 13.78 | | |
| 3 | 20 | 7 | 6.69 | 150*150*150 | 1981.93 | 315 | 0.0225 | 14.00 | | |
| 4 | 20 | 7 | 7.01 | 150*150*150 | 2077.04 | 318 | 0.0225 | 14.13 | 14.27 | |
| 5 | 20 | 7 | 6.82 | 150*150*150 | 2020.74 | 325 | 0.0225 | 14.44 | | |
| 6 | 20 | 7 | 6.79 | 150*150*150 | 2012.15 | 320 | 0.0225 | 14.22 | | |

**Results**: 7-days Compressive strength of cement is 14.13 N/mm2

**Note:**

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**For Mecadez Core Technologies Private Limited**

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# Test Report
## Concrete Compresive strength

| | |
|---|---|
| **Project Name** | 1. Improvement of drain at thirumenahalli village main road in ward no 05 byatarayanapura sub division.2) Improvement of road and drain at thirumenahalli junction to agrahara layout govt hospital in ward no05 byatarayanapura sub division 3)Improvement of roads and drain at chokkanahalli village main road cross road in ward no 05 byatarayanapura sub division 4) Improvement of roads and drain at markendeyanagara main road and cross roads in ward no 05 byatarayanapura sub division 5) Improvement of roads and drain at sriraj layout main road and cross road in ward no 05 byatarayanapura sub division 6) Improvement of roads and drain at kogilu surrounding in ward no 05 byatarayanapura sub division 7)Improvement of roads and drain at agrahara village cross roads in ward no 05 byatarayanapura sub division 8) Improvement of roads and drain at agrahara layout kallappa reddy main road in ward no 05 byatarayanapura sub division |
| **Client** | Executive Engineer Project Division Yelahanka Zone |
| **Job No** | MCTPL/BBMP/Project Division Yelahanka Zone /PMC/2017-2018/QR/P-9/1 |
| **Mix Type** | M20 Concrete for Raft |
| **Contractor** | Sri S K Chandra |
| **Test Method** | IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V. |
| **Location** | Bay |
| **Material** | Concrete |
| **Sample No** | 2 |
| **Date** | 25-Mar-2018 |

| Cube | Concrete Grade | Age at Test (Days) | Weight (kg) | Dimension (LxWxH) | Density ($kg/m^3$) | Max. Load (KN) | Area ($m^2$) | Compressive Strength ($N/mm^2$) | Avg. Sample Strength | Avg. Strength |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 20 | 7 | 6.98 | 150*150*150 | 2068.15 | 337 | 0.0225 | 14.98 | 14.76 | 14.99 |
| 2 | 20 | 7 | 6.93 | 150*150*150 | 2053.33 | 325 | 0.0225 | 14.44 | | |
| 3 | 20 | 7 | 6.91 | 150*150*150 | 2047.41 | 334 | 0.0225 | 14.84 | | |
| 4 | 20 | 7 | 7.19 | 150*150*150 | 2130.37 | 344 | 0.0225 | 15.29 | 15.21 | |
| 5 | 20 | 7 | 6.85 | 150*150*150 | 2029.63 | 345 | 0.0225 | 15.33 | | |
| 6 | 20 | 7 | 6.78 | 150*150*150 | 2008.89 | 338 | 0.0225 | 15.02 | | |

**Results**: 7-days Compressive strength of cement is 14.99 N/mm2

Note:

i. The results indicated above are based on the tests carried out on the sample at site.
ii. The results relate only to the items tested.
iii. This test report should not be reproduced except in full, without written approval of this laboratory.
iv. Any query regarding the report must be reported immediately.

**For Mecadez Core Technologies Private Limited**

Authorised Signature

Asst. Executive Engineer
Project Division,
Yelahanka Zone
Bangalore

# Test Report
## Concrete Compresive strength

| | |
|---|---|
| **Project Name** | 1. Improvement of drain at thirumenahalli village main road in ward no 05 byatarayanapura sub division.2) Improvement of road and drain at thirumenahalli junction to agrahara layout govt hospital in ward no05 byatarayanapura sub division 3)Improvement of roads and drain at chokkanahalli village main road cross road in ward no 05 byatarayanapura sub division 4) Improvement of roads and drain at markendeyanagara main road and cross roads in ward no 05 byatarayanapura sub division 5) Improvement of roads and drain at sriraj layout main road and cross road in ward no 05 byatarayanapura sub division 6) Improvement of roads and drain at kogilu surrounding in ward no 05 byatarayanapura sub division 7)Improvement of roads and drain at agrahara village cross roads in ward no 05 byatarayanapura sub division 8) Improvement of roads and drain at agrahara layout kallappa reddy main road in ward no 05 byatarayanapura sub division |
| **Client** | Executive Engineer Project Division Yelahanka Zone |
| **Job No** | MCTPL/BBMP/Project Division Yelahanka Zone /PMC/2017-2018/QR/P-9/1 |
| **Mix Type** | M20 Concrete for Raft |
| **Contractor** | Sri S K Chandra |
| **Test Method** | IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V. |
| **Location** | Bay |
| **Material** | Concrete |
| **Sample No** | 3 |
| **Date** | 25-Mar-2018 |

| Cube | Concrete Grade | Age at Test (Days) | Weight (kg) | Dimension (LxWxH) | Density (kg/m$^3$) | Max. Load (KN) | Area (m$^2$) | Compressive Strength (N/mm$^2$) | Avg. Sample Strength | Avg. Strength |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 20 | 7 | 7.07 | 150*150*150 | 2094.81 | 339.00 | 0.0225 | 15.07 | 14.84 | 15.07 |
| 2 | 20 | 7 | 7.02 | 150*150*150 | 2080.00 | 327.00 | 0.0225 | 14.53 | | |
| 3 | 20 | 7 | 7.00 | 150*150*150 | 2074.07 | 336.00 | 0.0225 | 14.93 | | |
| 4 | 20 | 7 | 7.28 | 150*150*150 | 2157.04 | 346.00 | 0.0225 | 15.38 | 15.30 | |
| 5 | 20 | 7 | 6.94 | 150*150*150 | 2056.30 | 347.00 | 0.0225 | 15.42 | | |
| 6 | 20 | 7 | 6.87 | 150*150*150 | 2035.56 | 340.00 | 0.0225 | 15.11 | | |

**Results**: 7-days Compressive strength of cement is 15.07 N/mm2

**Note:**

i. The results indicated above are based on the tests carried out on the sample at site.
ii. The results relate only to the items tested.
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iv. Any query regarding the report must be reported immediately.

**For Mecadez Core Technologies Private Limited**

Authorised Signature

Asst. Executive Engineer
Project Division.
Yelahanka Zone
Bangalore